

Title (en)

FUEL COMPOSITION AND ADDITIVE CONCENTRATES, AND THEIR USE IN INHIBITING ENGINE COKING

Publication

EP 0247706 A3 19880113 (EN)

Application

EP 87201460 A 19841228

Priority

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- US 56708983 A 19831230
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Abstract (en)

[origin: EP0247706A2] Coking in and around the injector nozzles of indirect injection compression ignition engines is reduced by means of distillate fuel into which has been blended suitable concentrations of: (a) organic nitrate ignition accelerator, (b) hydrocarbyl amine having from 3 to 60 carbons and from 1 to 10 nitrogens, and (c) N,N'-disalicylidene-1,2-diaminopropane. Additive concentrates can be formulated using such additive combinations.

IPC 1-7

C10L 1/22

IPC 8 full level

C10L 1/22 (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)

C10L 1/22 (2013.01); **C10L 10/02** (2013.01); **C10L 10/04** (2013.01); **C10L 1/222** (2013.01); **C10L 1/2222** (2013.01); **C10L 1/2283** (2013.01); **C10L 1/231** (2013.01); **C10L 1/2383** (2013.01); **F02B 3/06** (2013.01)

Citation (search report)

- [A] US 4208190 A 19800617 - MALEC ROBERT E [US]
- [A] US 3701641 A 19721031 - RAKOW MARVIN S, et al
- [A] US 3490882 A 19700120 - DUNWORTH WILLIAM P
- [A] US 2768884 A 19561030 - BOWERS ROLLAND G
- [A] US 3709668 A 19730109 - MOHAN V, et al
- [A] US 2945749 A 19600719 - ANDRESS HARRY J

Cited by

EP1305380A4; AU2010200065B2; CN109153930A; US7491249B2; WO9116408A1; WO2017203003A1

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